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| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 | | ATTORNEY'S DOCKET NUMBER 29347/50798 <hr/> U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <div style="font-size: 1.5em; font-weight: bold;">10/540496</div> |
| INTERNATIONAL APPLICATION NO. PCT/KR2003/002815 | INTERNATIONAL FILING DATE 23 December 2003 | PRIORITY DATE CLAIMED 23 December 2002 |
| TITLE OF INVENTION Apparatus for Manufacturing Molten Irons to Improve Operation of Fluidized Bed Type Reduction Apparatus and Manufacturing Method Using the Same (as amended) | | |
| APPLICANT(S) FOR DO/EO/US Myoung-Kyun SHIN, and Jun-Hyuk LEE | | |

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☒ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c)(2))
 - a. ☒ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☒ has been communicated by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)).
 - a. ☐ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A preliminary amendment.
14. ☒ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☐ A power of attorney and/or change of address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
18. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information: International Search Report; International Preliminary Examination Report; return receipt postal card

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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| U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 107540496 | | INTERNATIONAL APPLICATION NO. PCT/KR2003/002815 | ATTORNEY'S DOCKET NUMBER 29347/50798 | |
| The following fees have been submitted | | | CALCULATIONS | PTO USE ONLY |
| 21. | <input checked="" type="checkbox"/> Basic national fee | \$300 | \$ 300.00 | |
| 22. | <input checked="" type="checkbox"/> Examination fee | | | |
| If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)..... | | | | |
| All other situations | | | \$ 200.00 | |
| 23. | <input checked="" type="checkbox"/> Search fee | | | |
| Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority | | | | |
| International Search Report prepared and provided to the Office..... | | | \$ 500.00 | |
| All other situations | | | | |
| TOTAL OF 21, 22 and 23 = | | | \$ 1,000.00 | |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | | |
| Total Sheets | Extra sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE | |
| - 100 = | /50 = | | x \$250.00 | |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492 (e)). | | | \$ | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | |
| Total claims | 16 - 20 = | x | \$ 0.00 | |
| Independent claims | 2 - 3 = | x | \$ 0.00 | |
| MULTIPLE DEPENDENT CLAIM(s) (if applicable) | | | + | \$ |
| TOTAL OF ABOVE CALCULATIONS = | | | \$ 1,000.00 | |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2. | | | | |
| SUBTOTAL = | | | \$ 1,000.00 | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492 (f)). | | | + | \$ |
| TOTAL NATIONAL FEE = | | | \$ 1,000.00 | |
| Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property | | | + | \$ |
| TOTAL FEES ENCLOSED = | | | \$ 1,000.00 | |
| | | | Amount to be refunded: | \$ |
| | | | Amount to be charged: | \$ |
| a. | <input checked="" type="checkbox"/> A check in the amount of \$ <u>1,000.00</u> to cover the above fees is enclosed. | | | |
| b. | <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed. | | | |
| c. | <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>13-2855</u> . A duplicate copy of this sheet is enclosed. | | | |
| d. | <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. | | | |
| NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the International Application to pending status. | | | | |
| SEND ALL CORRESPONDENCE TO: | | | | |
| | | | SIGNATURE: | <u>James P. Zeller</u> |
| | | | NAME | |
| CUSTOMER NUMBER: 04743 | | | 28,491 | REGISTRATION NUMBER |

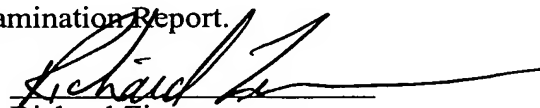
**IN THE UNITED STATES PATENT
AND TRADEMARK OFFICE**

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|----------------------------------|---|--------------------------------|
| Applicants: Shin et al. |) | For: APPARATUS FOR |
| |) | MANUFACTURING MOLTENS IRONS TO |
| U.S. National Phase of |) | IMPROVE OPERATION OF FLUIDIZED |
| PCT/KR2003/002815 filed December |) | BED TYPE REDUCTION APPARATUS |
| 23, 2003 |) | AND MANUFACTURING METHOD |
| |) | USING THE SAME (as amended) |
| Filed: Herewith |) | |
| |) | Group Art Unit: To be assigned |
| |) | |
| |) | Examiner: To be assigned |

CERTIFICATION UNDER 37 C.F.R. § 1.10

I hereby certify that the attached eight items (a) through (h) are being deposited with the United States Postal Service on June 23, 2005, in a postage-paid envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 utilizing the "Express Mail Post Office to Addressee" service of the United States Postal Service under Mailing Label No. EV532466512US.

- (a) Transmittal letter to the United States Designated/Elected Office (DO/EO/US) concerning a filing under 35 U.S.C. §371;
- (b) Application, including thirteen sheets of description, three sheets of claims, and five sheets of drawings;
- (c) Application Data Sheet;
- (d) Preliminary Amendment;
- (e) Declaration;
- (f) Information Disclosure Statement;
- (g) International Search Report; and
- (h) International Preliminary Examination Report.


Richard Zimmermann